

ABSTRACT

A method and system for providing a magnetic memory are disclosed. The method and system include providing a plurality of magnetic memory cells and at least one programmable current source. Each of the plurality of magnetic memory cells includes a first magnetic element. The programmable current source(s) are for programming a portion of the plurality of magnetic memory cells. Each of the programmable current source(s) includes a controller and a current source coupled to the controller. The controller is for determining a current provided by the current source and includes at least a second magnetic element. The second magnetic element(s) are substantially the same as the first magnetic element. The controller determines the current provided by the current source based on the at least the second magnetic element,